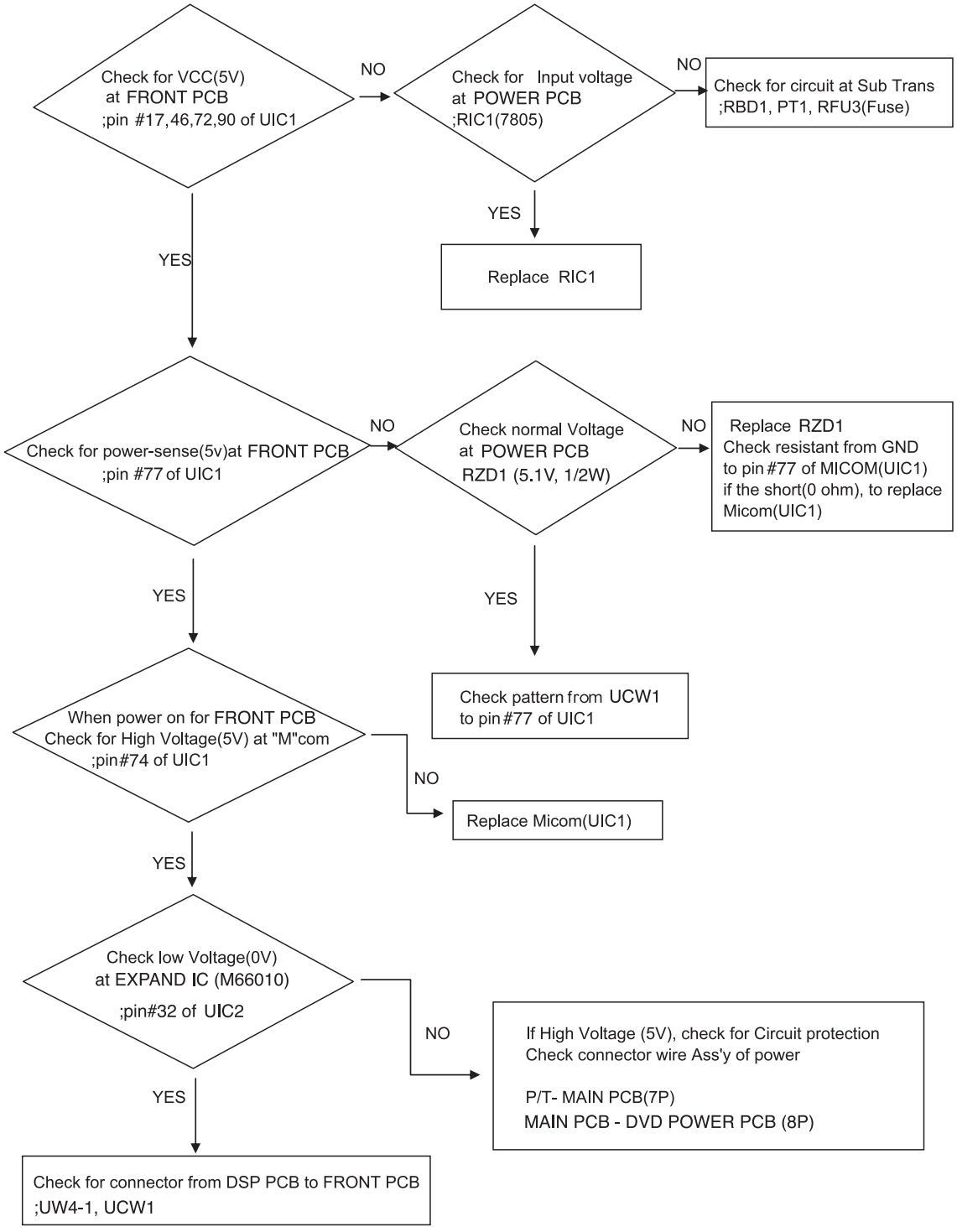
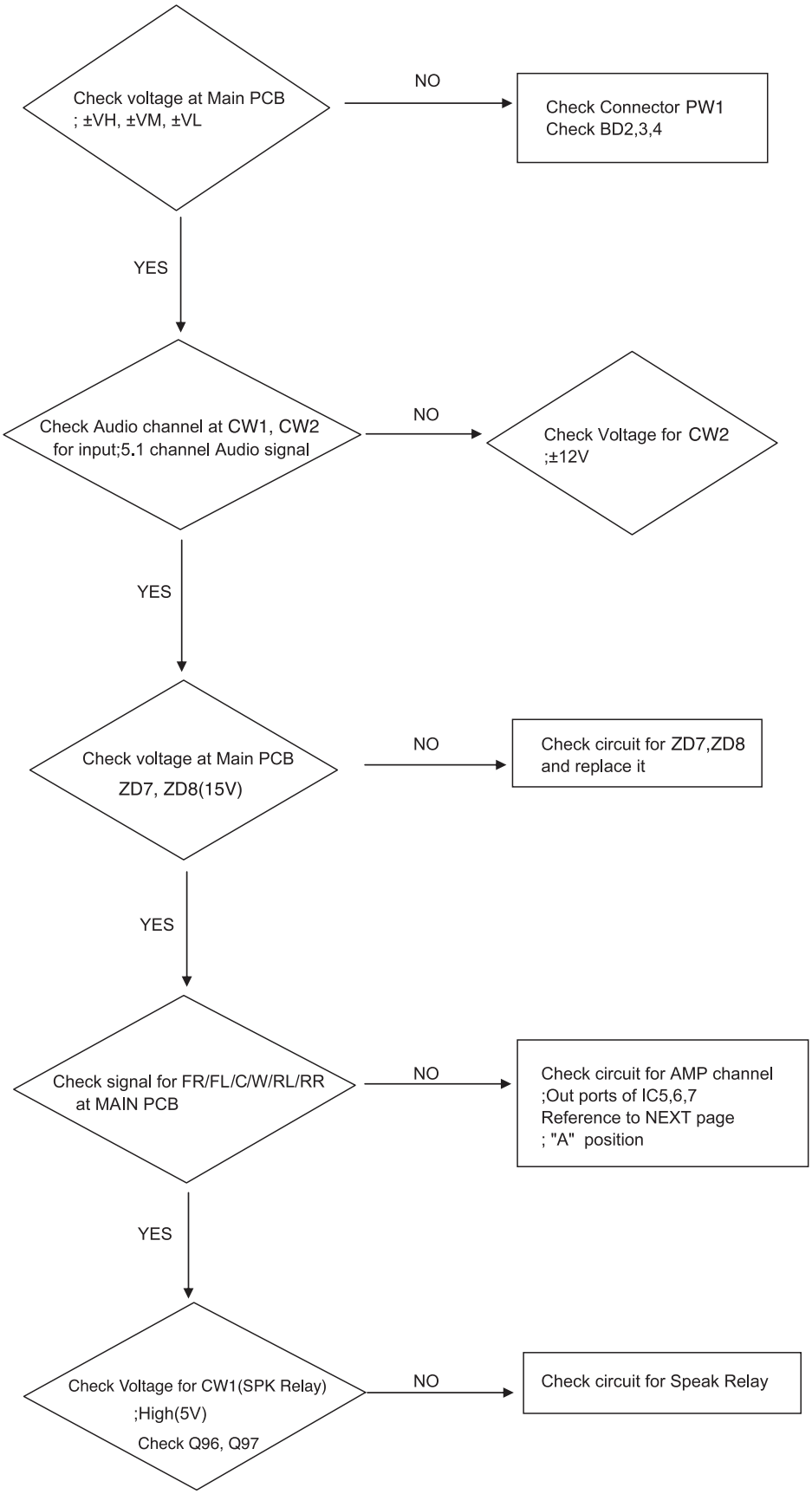
9. TroubleShooting

9-1 Main

1. POWER

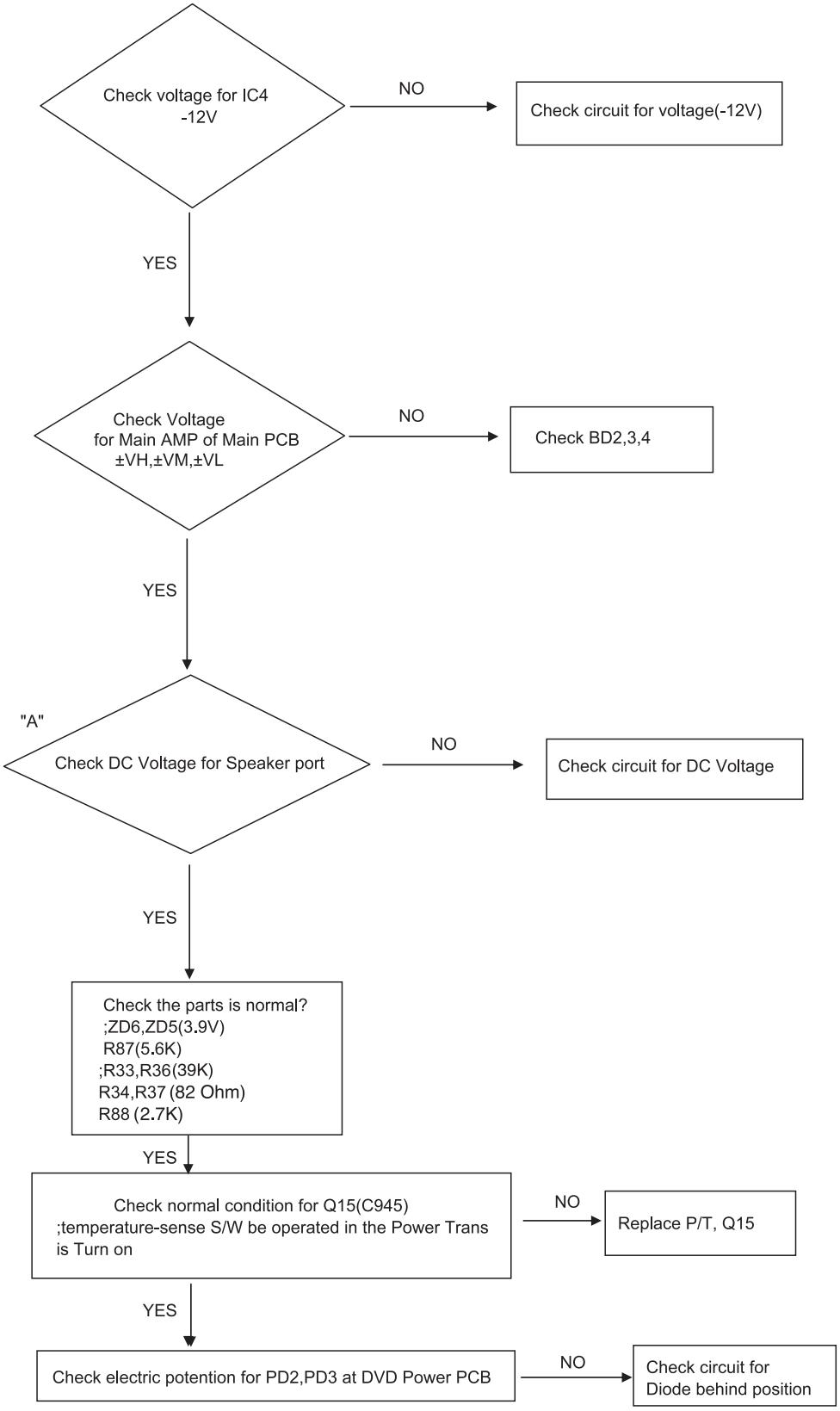


2. OUTPUT

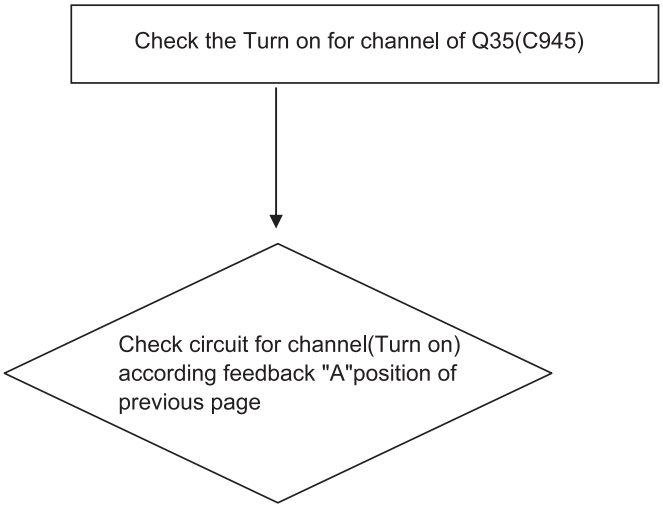

Check voltage at Main PCB
; ±VH, ±VM, ±VL
NO
Check Connector PW1
Check BD2,3,4
YES
Check Audio channel at CW1, CW2
for input;5.1 channel Audio signal
NO
Check Voltage for CW2
;±12V
YES
Check voltage at Main PCB
ZD7, ZD8(15V)
NO
Check circuit for ZD7,ZD8
and replace it
YES
Check signal for FR/FL/C/W/RL/RR
at MAIN PCB
NO
Check circuit for AMP channel
;Out ports of IC5,6,7
Reference to NEXT page
; "A" position
YES
Check Voltage for CW1(SPK Relay)
;High(5V)
Check Q96, Q97
NO
Check circuit for Speak Relay

3. Protection(When High Voltage at Protectiion port)

3-1 In this case "LOW" for, Base port of Q12(R2003 TR) at MAIN PCB



3-2 In this case "LOW" for Base of Q13(A733) at Main PCB

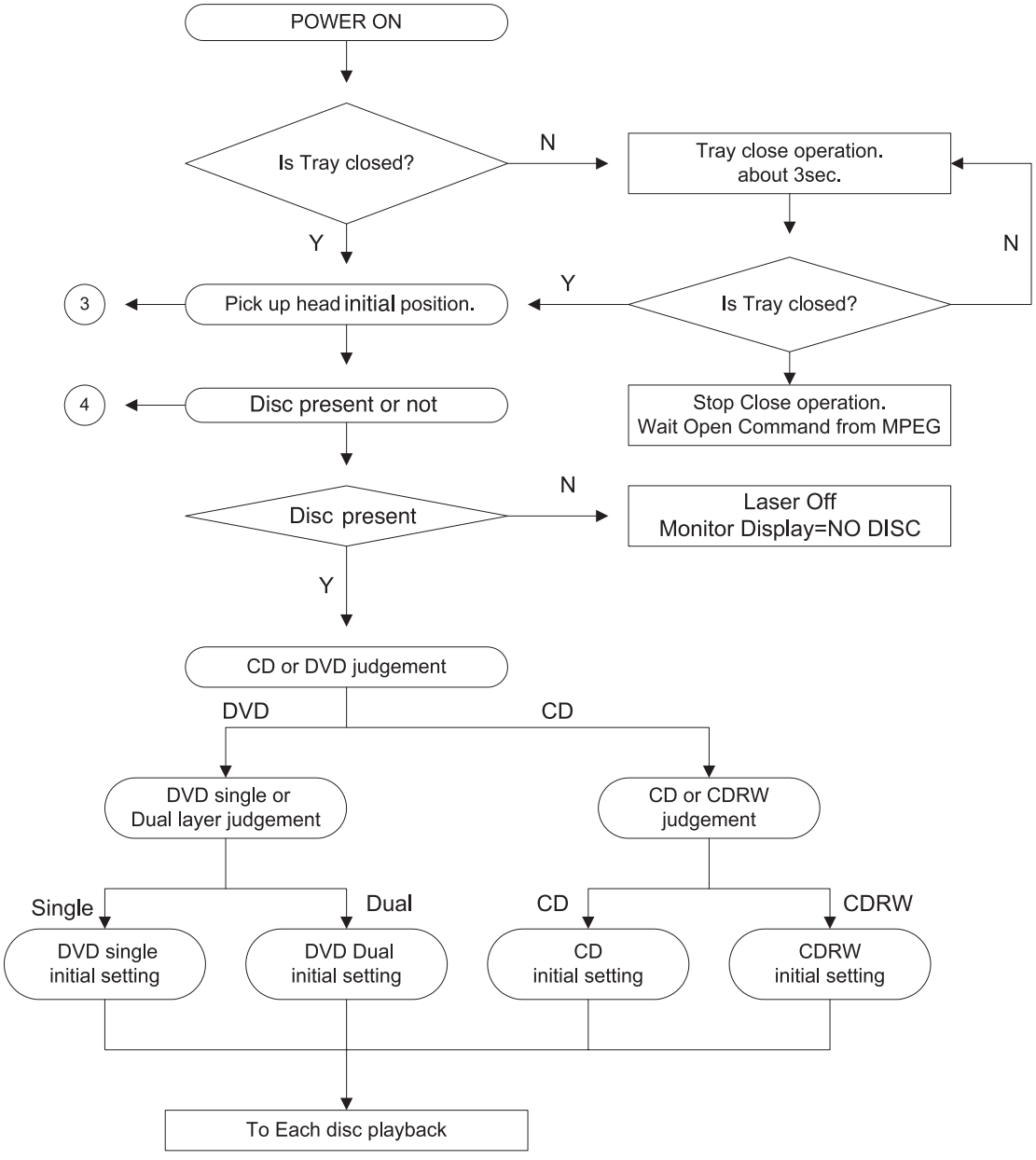

Check the Turn on for channel of Q35(C945)
Check circuit for channel(Turn on)
according feedback "A"position of
previous page

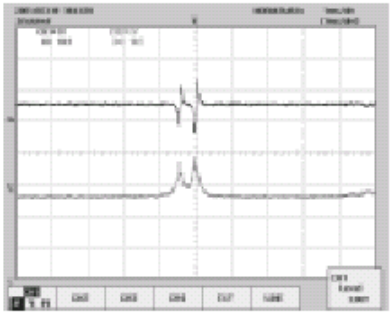
3-3 Check the Connector Wire Ass'y Connectin of each PCB

;DVD MECHA - Main PCB (8P,PW3)

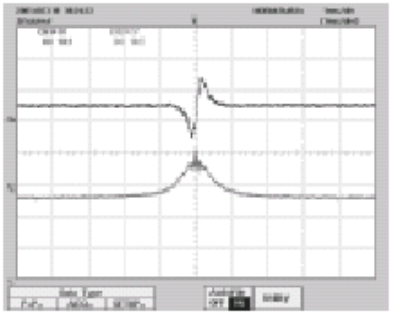
;POWER TRANS - Main PCB (PW1)

1. Initial operation after power ON



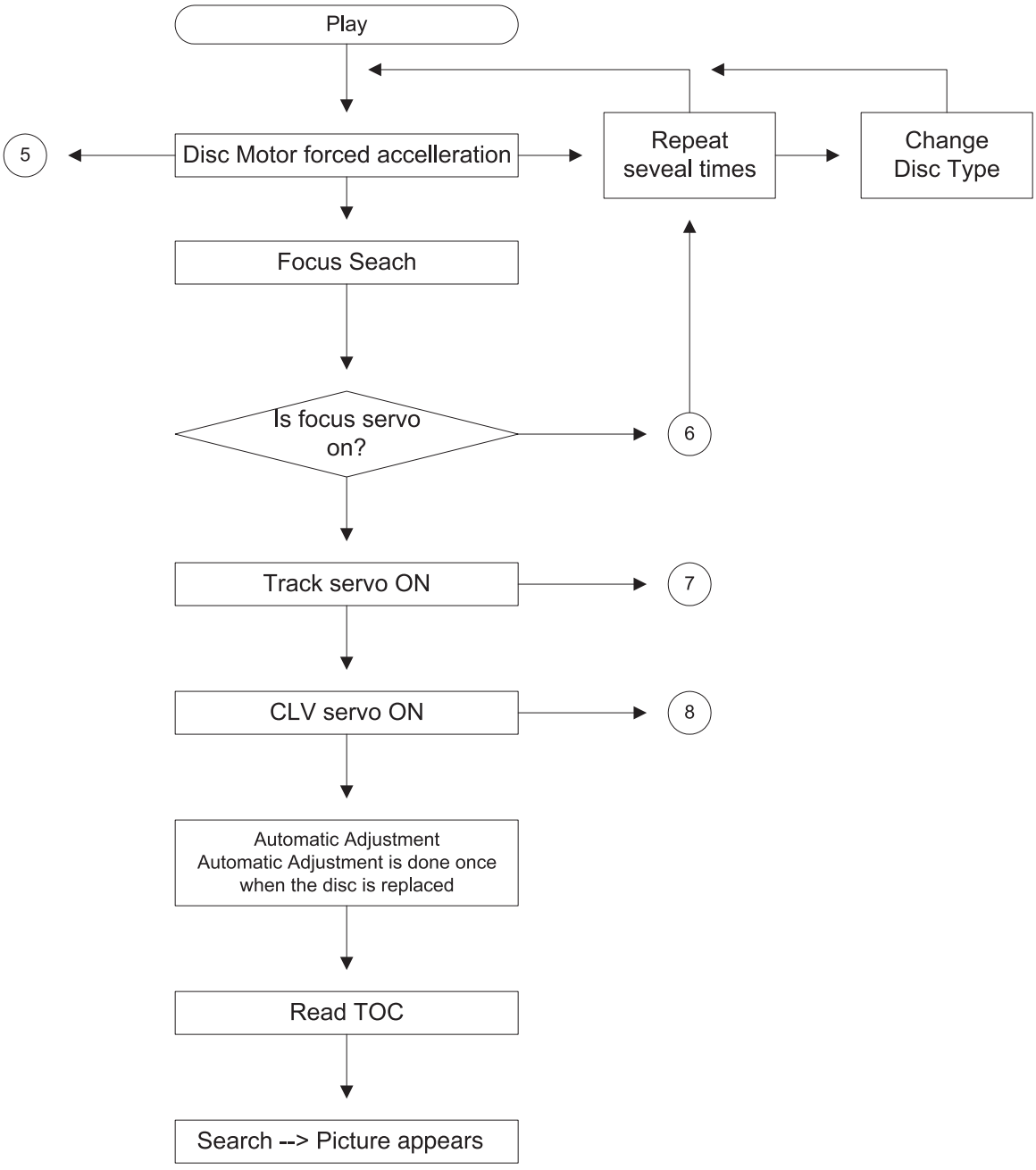


(DVD Dual)



(DVD Single)

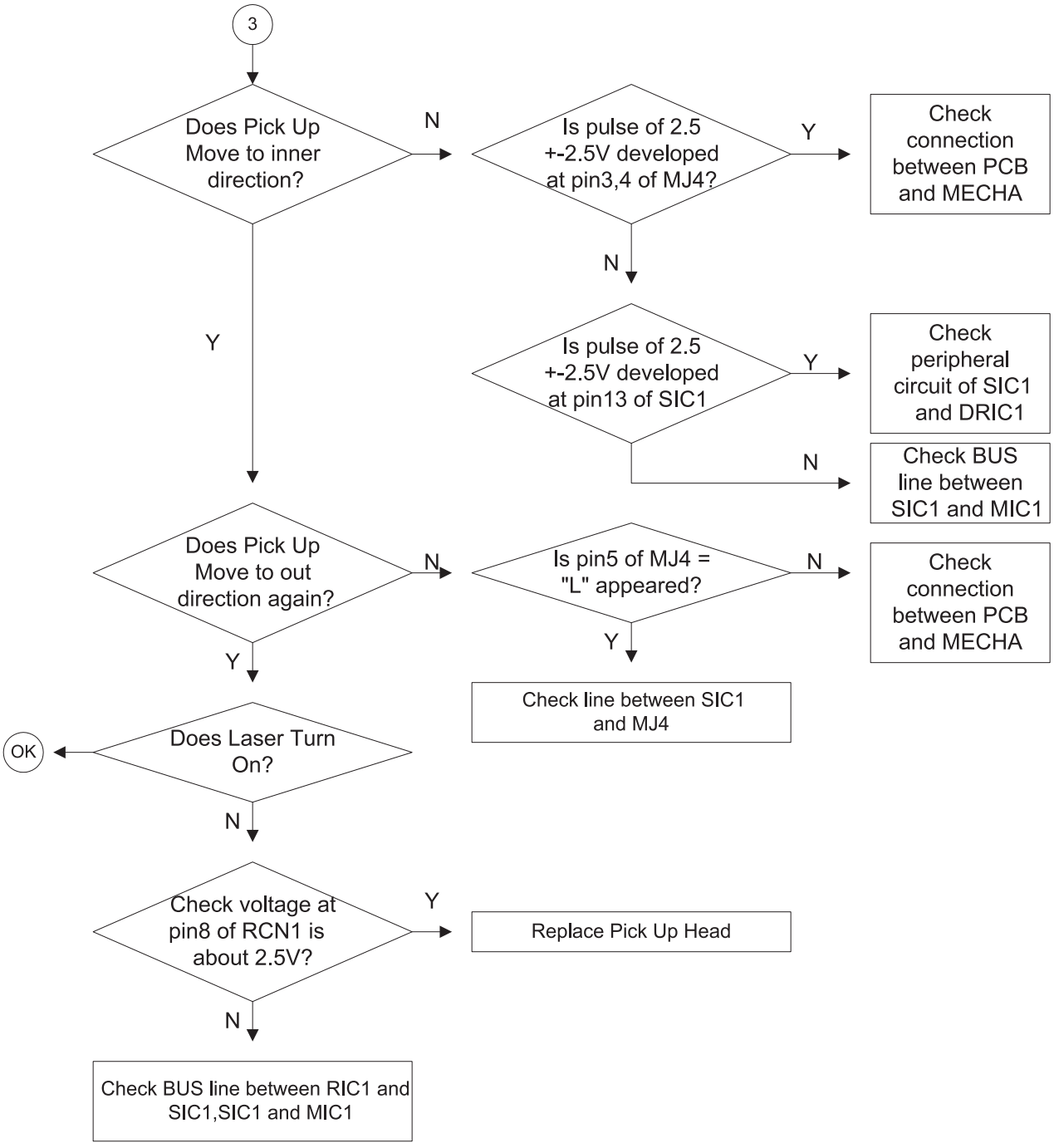
2. Play operation



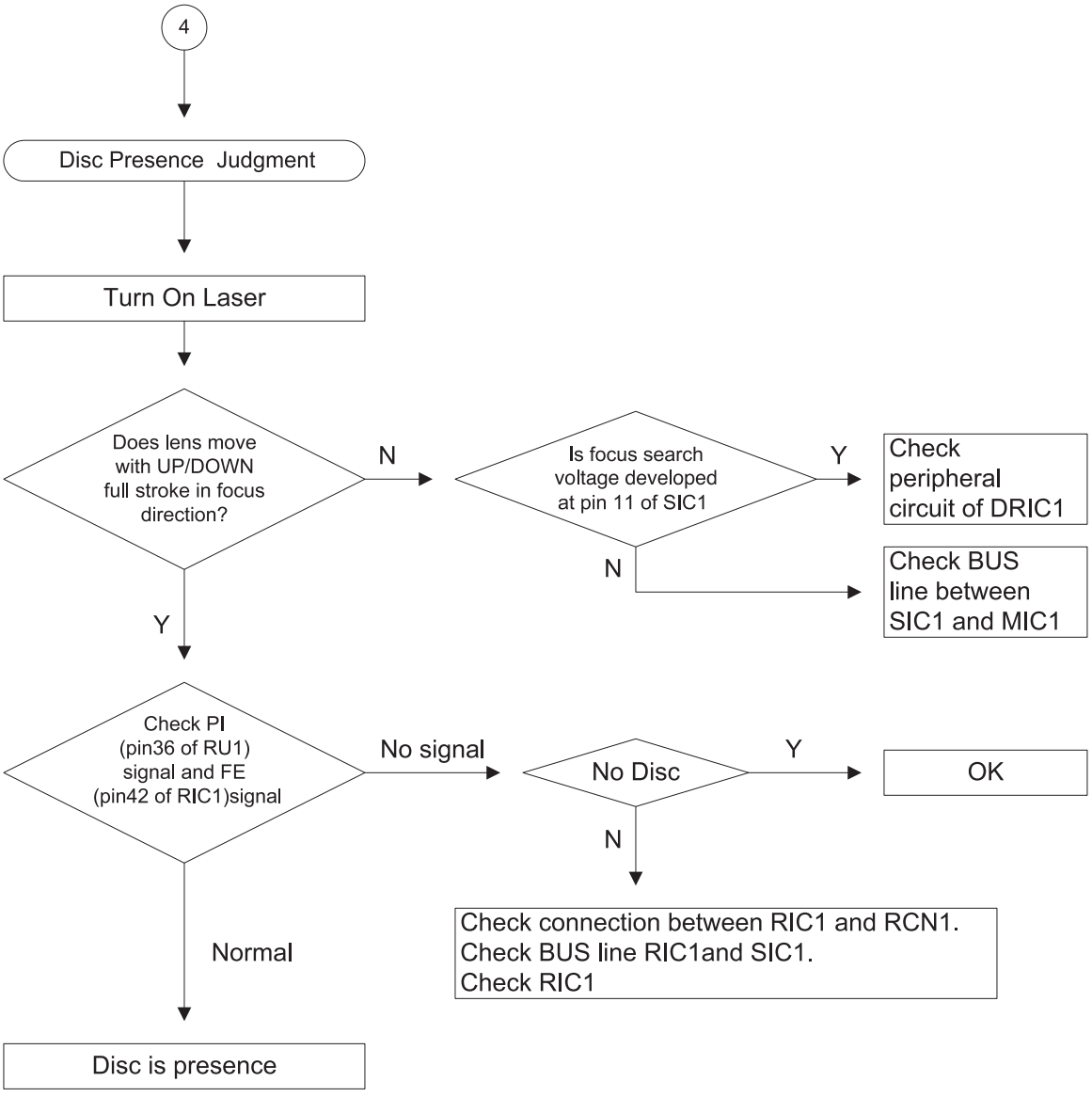
3. PickUp Head Initial Position

PickUp Head Initial Position

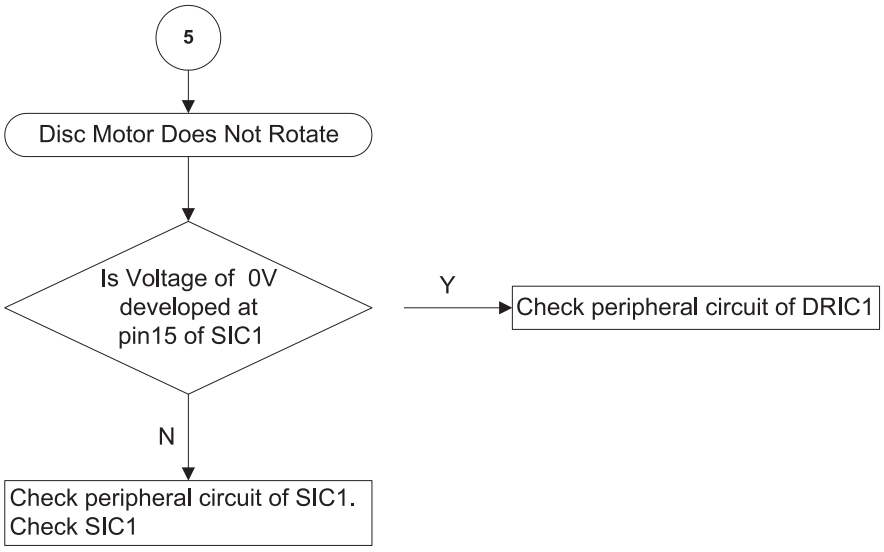
1. Move Pick Up Head to inner direction until pin5 of MJ4="L"
2. If pin5 of MJ4="L", then move Pick Up Head to outer direction for a short time.
3. Turn On the Laser of Pick Up Head to judge that disc is present or not.


3
Does Pick Up Move to inner direction?
N
Is pulse of 2.5 +-2.5V developed at pin3,4 of MJ4?
Y
Check connection between PCB and MECHA
N
Y
Is pulse of 2.5 +-2.5V developed at pin13 of SIC1
Y
Check peripheral circuit of SIC1 and DRIC1
N
Check BUS line between SIC1 and MIC1
Does Pick Up Move to out direction again?
N
Is pin5 of MJ4 = "L" appeared?
N
Check connection between PCB and MECHA
Y
Y
Check line between SIC1 and MJ4
OK
Does Laser Turn On?
N
Check voltage at pin8 of RCN1 is about 2.5V?
Y
Replace Pick Up Head
N
Check BUS line between RIC1 and SIC1,SIC1 and MIC1

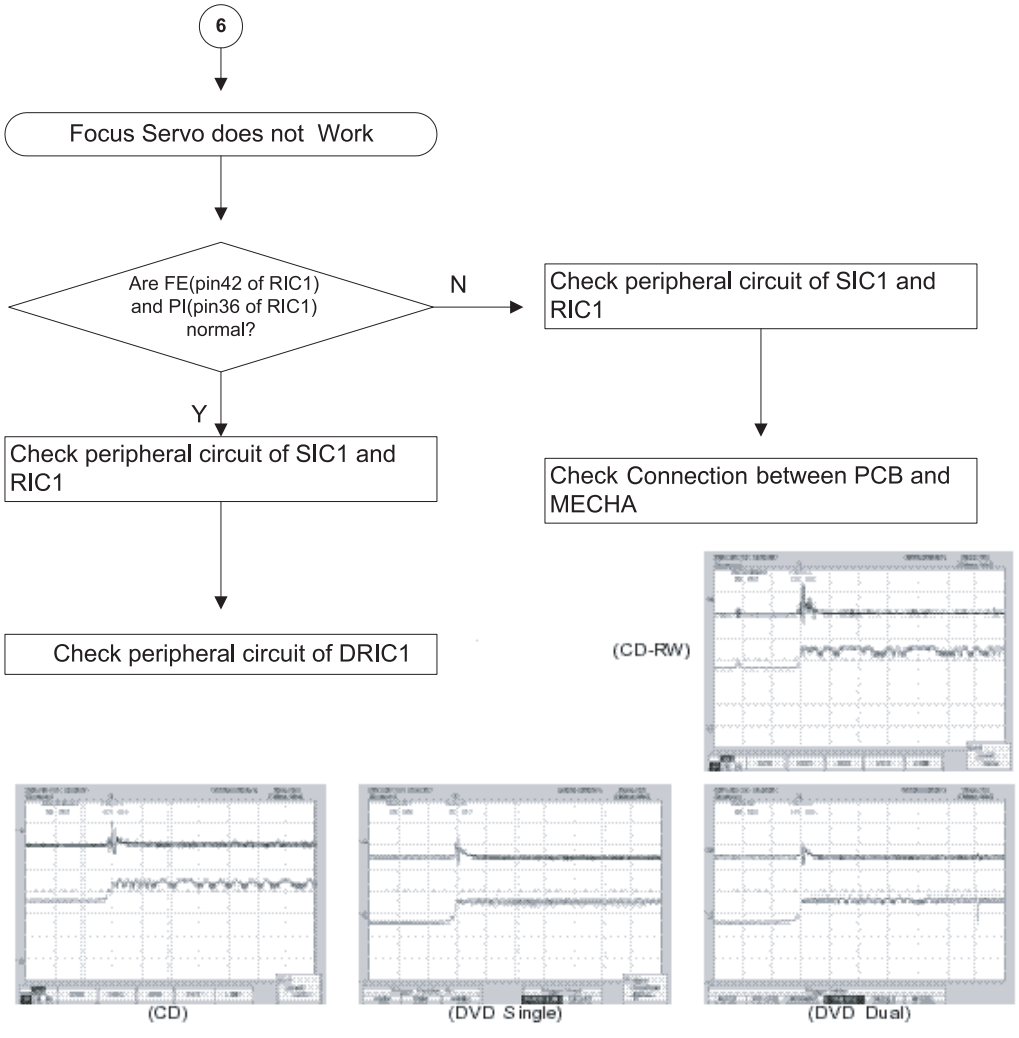
4. Disc Presence/Absense Judgment



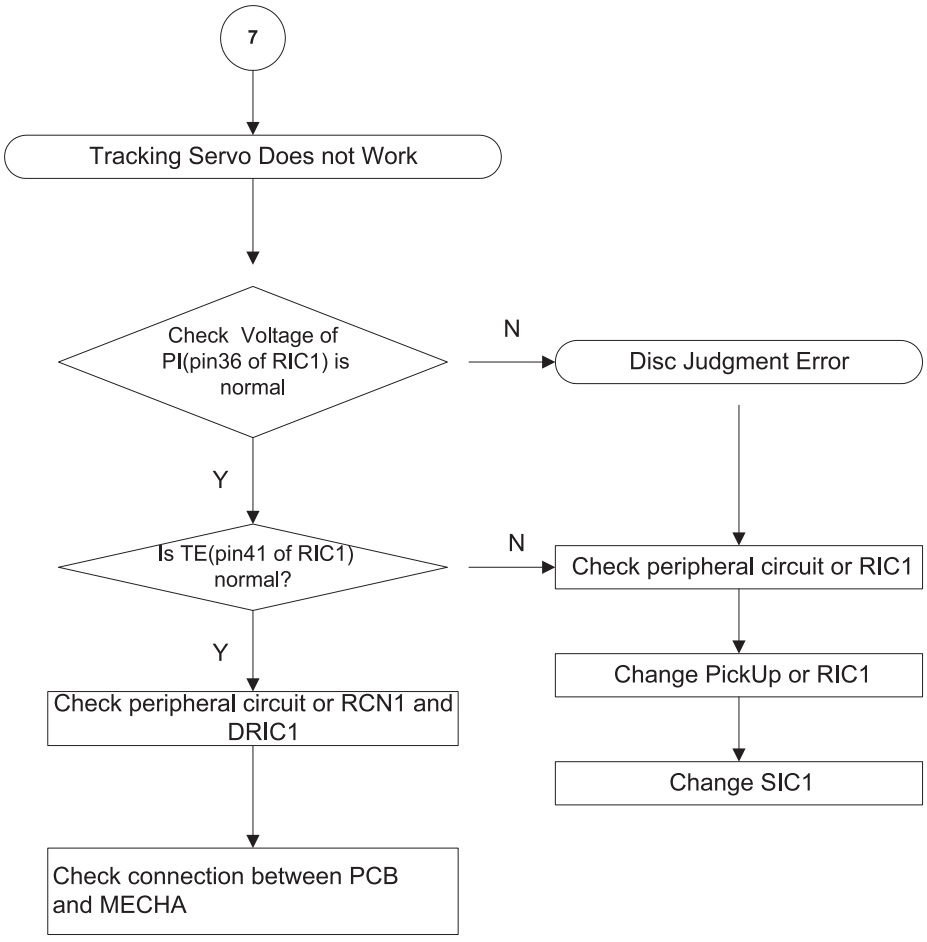
5. Disc Motor Does Not Rotate

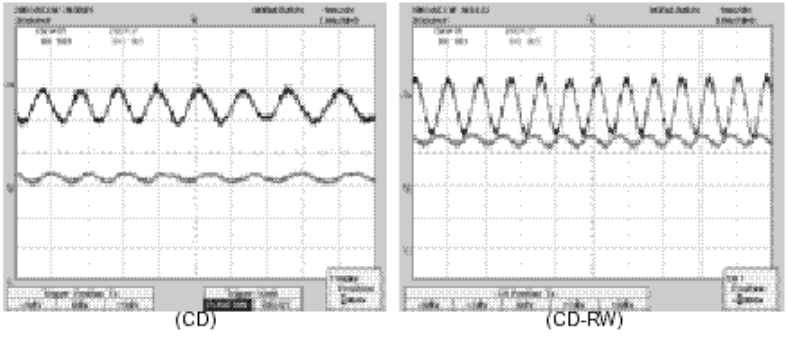

5
Disc Motor Does Not Rotate
Is Voltage of 0V developed at pin15 of SIC1
Y
Check peripheral circuit of DRIC1
N
Check peripheral circuit of SIC1. Check SIC1

6. Focus Servo does not Work

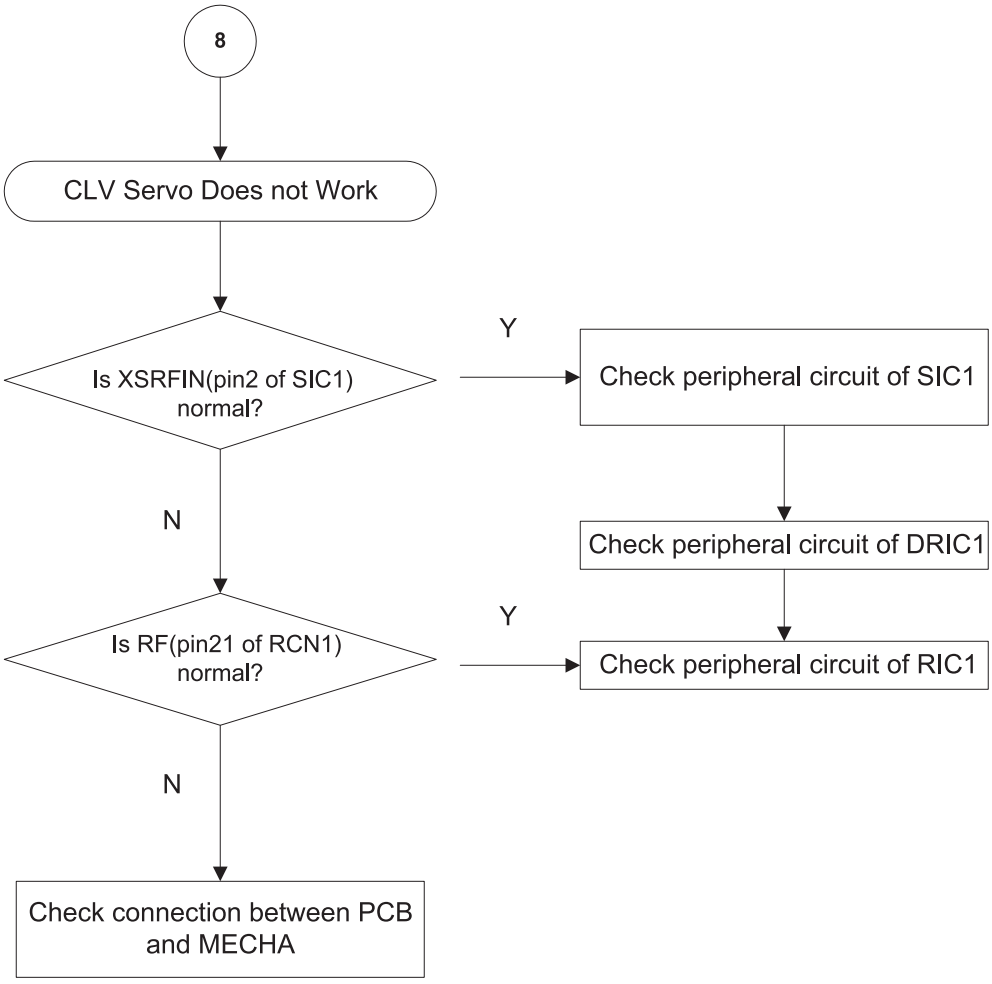


7. Tracking Servo Does Not Work

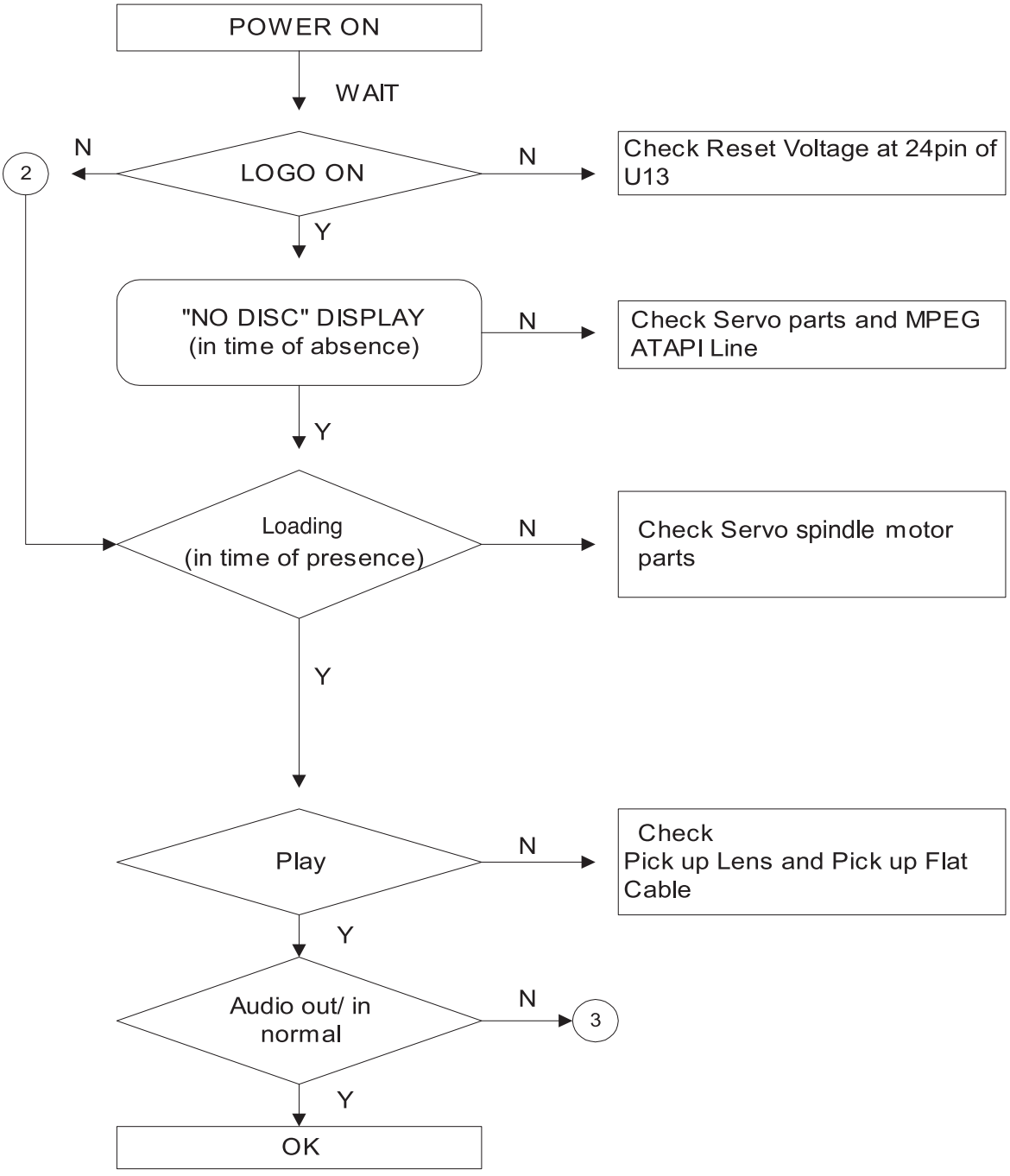




8. CLV Servo Does Not Work



1. Initial operation after NO



2. Logo operation

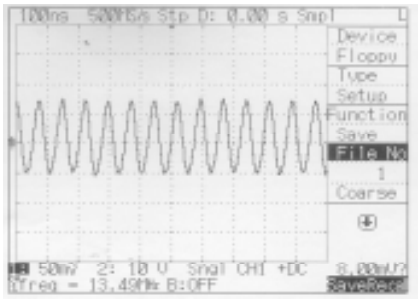
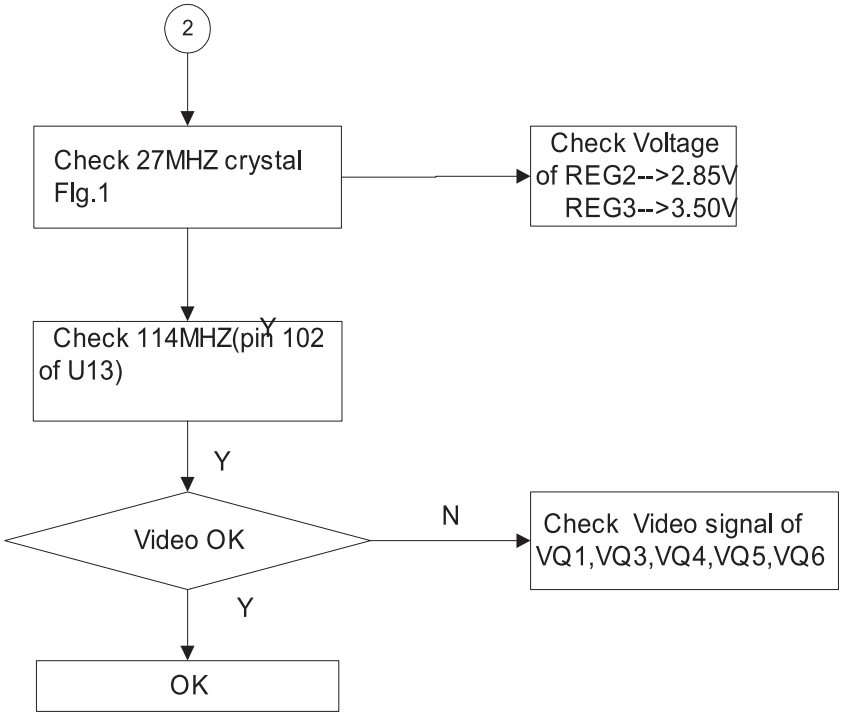
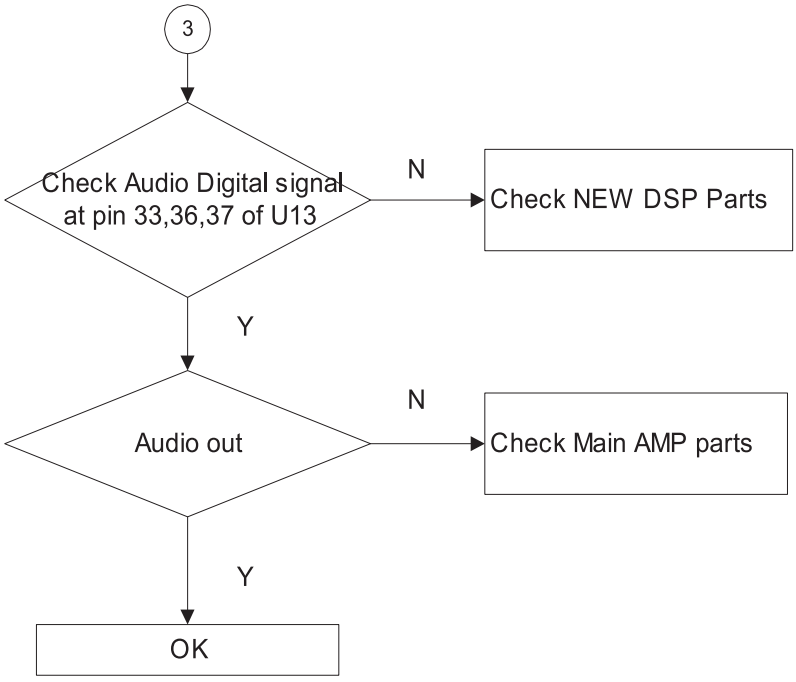


Fig.1



3.Audio operation